FINAL REPORT
FOR CONTRACT N00014-84-C-0180, TASK 5
BLUG MAINTENANCE AND DISTRIBUTION

SAIC-85/1595

Science Applications International Corporation

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Report SAIC-85/1596

FINAL REPORT FOR CONTRACT N00014-84-C-0180 TASK 5 BLUG MAINTENANCE AND DISTRIBUTION

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1 October 1985

Final Report

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NAVAL OCEAN RESEARCH AND DEVELOPMENT ACTIVITY
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

Database maintenance and distribution at SAIC of the Bottom Loss Upgrade (BLUG) database is summarized in the form of a final report for ONR Contract number N000-14-84-C-0180, Task 5.

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FINAL REPORT FOR CONTRACT N00014-84-C-0180
TASK 5 - BLUG MAINTENANCE AND DISTRIBUTION

1. INTRODUCTION

1.1 Contract Information. This document is the final report for Office of Naval Research Contract Number N00014-84-C-0180, Task 5. The work under this contract was conducted by Science Applications International Corporation (SAIC) during the period from 3 January 1984 to 2 January 1985.

2. TASK 5 - BLUG MAINTENANCE AND DISTRIBUTION

2.1 Statement of Work. The Contractor shall maintain and distribute the Bottom Loss Upgrade (BLUG) data base as directed by AEAS. Included in this task, the Contractor shall update the data base as future work warrants and distribute these updates and additions to other organizations holding the data base. The Contractor shall also generate and distribute BLUG predictions and graphic charts as requested.

2.2 Background. SAIC developed the BLUG data base, extraction software, and documentation for the AEAS program. On October 1, 1985, the beginning of Fiscal Year 1985, the Naval Oceanographic Office (NAVOCEANO) assumed responsibility for the maintenance and distribution of the BLUG data base. During the period of the contract, the data base was undergoing testing and evaluation for installation at Fleet Numerical Oceanographic Center (FNOC) at Monterey; numerous small changes were made to the data base in response to inputs from various sources. In addition a major change in the data base in the Mediterranean Basin was carried out at SAIC in conjunction with NAVOCEANO. SAIC, as the developer of the BLUG data base, served as the coordinator to update the data base and associated documentation and distribute current versions of the data base to designated users, until the time that NAVOCEANO assumed control. The tasks carried out by SAIC are summarized in the following paragraphs.

2.3 BLUG Distribution. Copies of the BLUG data base and extraction software were distributed to the following organizations:

1) Mr. Charles Bartberger
   NADC Code 205
   Warminster, PA 18974

2) Mr. John Allen
Ms. Martha Winsor
Mr. Robert Evans
NAVOCEANO
Bay St. Louis, MS 39529

3) Mr. John Laugnhlin
Mr. B. Lippert
DSI
Rockville, MD

4) Dr. Robert F. Henrick
APL

5) Mr. Nate Greenfeldt
ODSI (FNOC)

6) Mr. Randall Doebler
NUSC (APP)

The extraction software delivered to these organizations was developed at SAIC for internal use and is not the layer extraction system developed and installed by Ocean Data Systems at Fleet Numerical Oceanographic Center. Generally the software required some modifications to run at the users local facility.

2.4 BLUG Updates. The new NOO Mediterranean Sea geo-acoustic areas were incorporated into the BLUG data base. This data base update was sent to DSI (Greenfeldt) at FNOC. Documentation for BLUG was updated with the new Mediterranean areas and distributed to users. This documentation includes the color graphics charts of the BLUG as produced by Ruth Keenan (SAIC) at Woods Hole. Documentation for a new high resolution BLUG data base in the Korea Strait was generated that contains a geo-acoustic area chart and a sediment thickness chart. The methodology for the development of the areas is described and each area is documented as to geologic and geo-acoustic properties. A set of geo-acoustic parameters is given for each area.